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CAREFULLY BEFORE				3060
PROCEEDING	REMITTANCE ADVICE		SP	ECIAL USE
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(1) LOCKBOX #979089	PAGE NO 1 OF 1		FC	C USE ONLY
	SECTION	A - Payer Information		
(2) PAYER NAME (if paying by c	redit card, enter name exactly as it appo		(3) TOTA	L AMOUNT PAID (dollars and co
Wiley Rein LLP			\$725.00	
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5) STREET ADDRESS LINE NO	. 2			
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Gregory L. Masters 202.719.7370 gmasters@wileyrein.com

June 20, 2019

BY HAND VIA COURIER

Marlene H. Dortch Secretary Federal Communications Commission 445 Twelfth Street, S.W. 12th Street Lobby, TW-A325 Washington, DC 20554 Accepted / Filed

JUN 202019

Federal Communications Commission Office of the Secretary

Re:

Blow Up, LLC

FRN: 0006935753

KHKA(AM), Honolulu, Hawaii (Fac. ID No. 31600)

Application for Station License

Request for Program Test Authority

Dear Ms. Dortch:

On behalf of Blow Up, LLC, licensee of AM station KHKA, Honolulu, Hawaii, we are submitting herewith an original and two copies of an application on FCC Form 302-AM for license to cover Construction Permit BP-20180419ABS. Program Test Authority is requested.

The fee due for this application, \$725.00, has been paid, using the FCC Fee Filer system. A copy of Form 159 confirming the payment is included herewith.

Should there be any questions concerning this application, please contact the undersigned.

Respectfully Submitted,

Gregory L. Wasking

Gregory L. Masters

Federal Communications Commission Washington, D. C. 20554

Approved by OMB 3060-0627 Expires 01/31/98

FOR FCC USE ONLY	
ONLY	

FCC 302-AM APPLICATION FOR AM BROADCAST STATION LICENSE

(Please read instructions before filling out form.

FILE NO. BL-20190620ABD

. PAYOR NAME (Last, F	NT FEE INFORMATION		Accepted / FI JUN 2.0 2019
Blow Up, LLC	not, made milaly		
	1) (Maximum 35 characters)		JUN 2:0 2019
126 Queen Street	i) (Maximum 35 characters)		
MAILING ADDRESS (Line Suite 204	2) (Maximum 35 characters)		Federal Communications Comm Office of the Secretary
CITY Honolulu		STATE OR COUNTRY (if foreign	address) ZIP CODE 96813
TELEPHONE NUMBER (in 808-536-3624	nclude area code)	CALL LETTERS OTI	HER FCC IDENTIFIER (If applicable)
2. A. Is a fee submitted wit	th this application?		✓ Yes No
C. If Yes, provide the fol Enter in Column (A) the co ee Filing Guide." Column		ou are applying for. Fee Type Codes r this application. Enter fee amount due	may be found in the "Mass Media Service e in Column (C).
Enter in Column (A) the co	orrect Fee Type Code for the service yo	this application. Enter fee amount due	may be found in the "Mass Media Service e in Column (C).
Enter in Column (A) the co	orrect Fee Type Code for the service yon (B) lists the Fee Multiple applicable for	this application. Enter fee amount due	may be found in the "Mass Media Services in Column (C). FOR FCC USE ONLY
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SECTION II - APPLICA	NT INFORMATION			
 NAME OF APPLICANT Blow Up, LLC 				
MAILING ADDRESS 126 Queen Street, Suite 2	04			
CITY Honolulu		STATE HI		ZIP CODE 96813
2. This application is for	Commercial AM Dire		mercial Non-Directional	
Call letters KHKA	Community of License Honolulu	Construction Permit File No BP-20180419ABS	Modification of Construction Permit File No(s).	Expiration Date of Last Construction Permit 08/13/2021
3. Is the station accordance with 47 C. If No, explain in an Exh		to automatic program	test authority in	Yes No Exhibit No.
construction permit be	•	gations set forth in the	above described	Yes No Exhibit No.
the grant of the unde	in an Exhibit. nges already reported, har rlying construction perm ed in the construction per	it which would result in	any statement or	Yes ✓ No
If Yes, explain in an E	xhibit.			Exhibit No.
· ·	filed its Ownership Repor nce with 47 C.F.R. Sectio	,	nership	Yes No
If No, explain in an Ext	nibit.			Does not apply Exhibit No.
or administrative body criminal proceeding, but	ding been made or an ac with respect to the applic rought under the provisio related antitrust or unfa unit; or discrimination?	ant or parties to the app ns of any law relating to	lication in a civil or the following: any	Yes ✓ No
involved, including an including and (by dates and file nur information has been required by 47 U.S.C. of that previous submit the call letters of the signal involved.	attach as an Exhibit a fidentification of the court nbers), and the dispositi earlier disclosed in conscious 1.65(c), the appliance of the station regarding which the of filing; and (ii) the disposition of the station at the station regarding which the of filing; and (ii) the disposition of the station regarding which the disposition is the station regarding which the disposition is the station regarding which the disposition is the station regarding which regarding which regarding which regarding which regarding which regarding	or administrative body a on of the litigation. We nection with another cant need only provide: a file number in the case the application or Section	nd the proceeding There the requisite application or as (i) an identification of an application, n 1.65 information	Exhibit No.

8. Does the applicant, or any party to the application, have a the expanded band (1605-1705 kHz) or a permit or license expanded band that is held in combination (pursuant to the 5 with the AM facility proposed to be modified herein?	either in the existing band	or
If Yes, provide particulars as an Exhibit.		Exhibit No.
The APPLICANT hereby waives any claim to the use of any against the regulatory power of the United States because requests and authorization in accordance with this application amended).	e use of the same, whet	ther by license or otherwise, and
The APPLICANT acknowledges that all the statements material representations and that all the exhibits are a material	de in this application and all part hereof and are inco	attached exhibits are considered rporated herein as set out in full in
CERTIFIC	CATION	
 By checking Yes, the applicant certifies, that, in the case or she is not subject to a denial of federal benefits that includes Section 5301 of the Anti-Drug Abuse Act of 1988, 21 Ucase of a non-individual applicant (e.g., corporation, partner association), no party to the application is subject to a deincludes FCC benefits pursuant to that section. For the deincludes FCC benefits pursuant to that section. For the deincludes, see 47 C.F.R. Section 1.2002(b). I certify that the statements in this application are true, coand are made in good faith. 	udes FCC benefits pursua S.C. Section 862, or, in the ship or other unincorporate enial of federal benefits the finition of a "party" for the	ant he ed at
Name	Signature	
Susan Eichor	Our 1	Euh
Manager	June 18 , 2019	Telephone Number 808-536-3624
WILLELL FALSE STATEMENTS ON THIS SOPM AD	E DIINIQUADI E DV EINI	E AND/OR HADDICONNEDIT

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, the application may be returned without action having been taken upon it or its processing may be delayed white a request is made to provide the missing information. Your response is required to obtain the requested authorization.

Public reporting burden for this collection of information is estimated to average 639 hours and 53 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0827), Washington, D. C. 20554. Do NOT send completed forms to this address.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

THOMAS M. ECKELS, PE STEPHEN S. LOCKWOOD, PE DAVID J. PINION, PE ERIK C. SWANSON, PE

THOMAS S. GORTON, PE

JAMES B. HATFIELD, PE BENJAMIN F. DAWSON III, PE CONSULTANTS HATFIELD & DAWSON CONSULTING ELECTRICAL ENGINEERS 9500 GREENWOOD AVE. N. SEATTLE, WASHINGTON 98103

Telephone (206) 783-9151 Facsimile (206) 789-9834 E-mail hatdaw@hatdaw.com ,

> Maury L. Hatfield, PE (1942-2009) Paul W. Leonard, PE (1925-2011)

ENGINEERING REPORT:

APPLICATION TO COVER CONSTRUCTION PERMIT

KHKA, 1500 kHz 5 kW ND

HONOLULU, HAWAII

BP-20180419ABS

JUNE 2019

INTRODUCTION

Radio stations KHKA 1500 kHz and KLHT 1040 kHz have been relocated to make way for the light rail system in Honolulu. This report addresses the Special Operating Conditions outlined in the construction permits for KHKA and KLHT. These measurements were made the first week of June 2019.

Measurements were made by Stephen S. Lockwood, P.E. of Hatfield & Dawson and Robert Elder, BSEE of Kintronic Labs.

SECTION I – Construction Permit Special Operation Conditions

Condition 1 Licensee shall install a type accepted transmitter, or submit application (FCC Form 301) along with data prescribed in Section 73.1660(b) should non-type accepted transmitter be proposed.

The transmitters are type accepted and each station-is using a Nautel NX10.

Condition 2 A license application (FCC Form 302) to cover this construction permit must be filed with the Commission pursuant to Section 73.3536 of the Rules before the permit expires.

The License application Form 302 is provided in this report.

Condition 3 Licensee shall be responsible for satisfying all reasonable complaints of blanketing interference within the 1 V/m contour as required by Section 73.88 of the Commission's rules.

Licensees will comply with this condition.

Condition 4 The licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

Licensees will comply with this condition. The site is encompassed with a locked chain-link fence with appropriate warning signs. Additionally, there is a fence with a locked gate around the building and fence with a locked gate around the base of the tower.

Condition 5 Before program tests are authorized, sufficient data shall be submitted to show that adequate filters, traps and other equipment has been installed and adjusted to prevent interaction, intermodulation and/or generation of spurious radiation products which may be caused by common usage of the same antenna system by Stations KHKA and KLHT (ID#8415), and there shall be filed with the license application copies of a firm agreement entered into by the two stations involved clearly fixing the responsibility of each with regard to the installation and maintenance of such equipment. In addition, field observations shall be made to determine whether spurious emissions exist and any objectionable problems resulting therefrom shall be eliminated. Following construction, and prior to authorization of program test under this grant, both stations shall each measure antenna or common point resistance and submit FCC Form 302 as application notifying the return to direct measurement of power.

This condition is averred to be met. Refer to supporting information is provided in Section II of this report.

Condition 6 The fundamental field strength produced by this facility as determined by measurement a point 22 feet east and 105 feet south of the southeast corner of the main building at the Commission's Honolulu Office, shall not exceed 45 mV/m (93.1 dBu) at any time.

Compliance with this condition is discussed in Section III of this report.

Condition 7 Any and all spurious emissions, other than on frequencies contained within AM Broadcast Band, from this and other stations which are also in any way related to this station's facilities or transmission as detected by the monitoring equipment at the Commission's Honolulu monitoring station, shall be no greater than 0.71 uV/m (-3 dbu).

Compliance with this condition is discussed in Section IV of this report.

Condition 8 In the event of interference to the monitoring station's operations which is in any way related to this station's facilities or transmissions, the licensee shall take such corrective action as is necessary to eliminate the interference. Corrective action shall include the provision, installation, and adjustments of suitable transmitter filter circuits, shielding, or other appropriate devices which may be

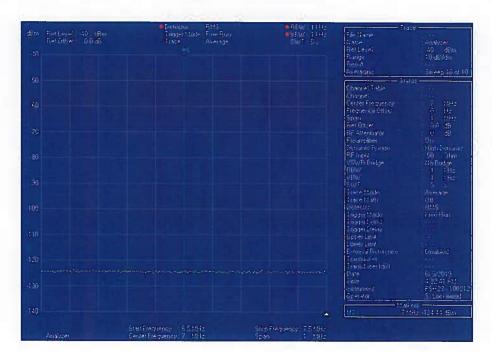


Figure 11 6.5 - 7.5 MHz

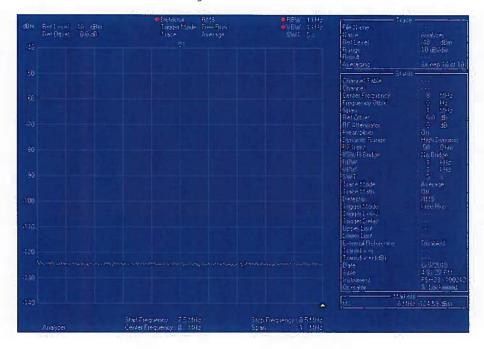


Figure 12 7.5 - 8.5 MHz

required to eliminate the interference. If these or other measures do not eliminate the interference, the license shall reduce power to comply or cease transmissions.

Licensees will comply with this condition.

Condition 9 Ground system consists of 120 equally spaced, buried, copper radials about the base of the tower, each 45.7 meters in length.

See drawing in Section V of this report.

SECTION II INTERMODULATION MEASUREMENTS

Intermodulation measurements were made using a Rhode & Schwarz FSH3 Portable Spectrum Analyzer (100 kHz-3 GHz) with an Electro-Metrics Loop Antenna and two Potomac FIM 41. A Scott AM Notch Filter was also used along with various attenuators.

The measurements were made at the Ke'ehi Lagoon Beach Park which is west of the KHKA/KLHT site. Measurements were made at several locations within the park. These locations were: tennis court parking lot approximately 1000 meters from tower; rest rooms & pavilion approximately 490 meters from tower; and picnic table on canal east side of part approximately 290 meters from tower.

These measurements were challenging to make as there are 9 AM stations within 2 kilometers of these locations. All of these stations produce high signal strength which overload the Spectrum Analyzer and FIM Receivers and produce receiver generated intermodulation.

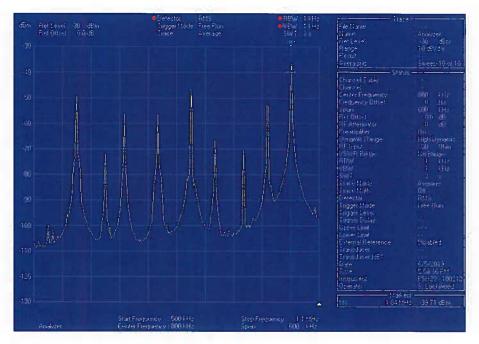


Figure 1 AM Band at Park 500 - 800 kHz

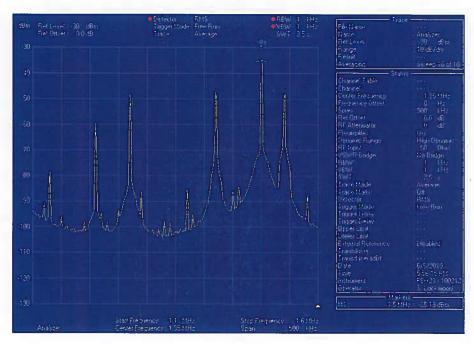


Figure 2 AM Band at Park 1.1 - 1.6 MHz

As shown on these spectral graphs, there are intermodulation products that are being produced within the spectrum analyzer. With the equipment available it was not practical to make definitive unambiguous measurements using the spectrum analyzer. Using the FIM 41, measurements were made for all of the following frequencies below 5 MHz.

Within AM Band		2660	4A-B
580	2A-B	2880	4B-3A
920	2B-2A	3000	2B-A
1160	4A-2B	3120	3A
1380	3B-3A	3460	3B-A
1620	ЗА-В	3580	2A+B
ed Banc	l on FIM-41 below 5 MHz	3700	5A-B
1960	2B-A	3920	4B-2A
2080	2A	4040	A+2B
2200	5A-2B	4160	4A
2420	3B-2A	4500	3B
2540	A+B	4620	3A+B
	580 920 1160 1380 1620 ed Banc 1960 2080 2200 2420	580 2A-B 920 2B-2A 1160 4A-2B 1380 3B-3A 1620 3A-B ded Band on FIM-41 below 5 MHz 1960 2B-A 2080 2A 2200 5A-2B 2420 3B-2A	580 2A-B 2880 920 2B-2A 3000 1160 4A-2B 3120 1380 3B-3A 3460 1620 3A-B 3580 38d Band on FIM-41 below 5 MHz 3700 1960 2B-A 3920 2080 2A 4040 2200 5A-2B 4160 2420 3B-2A 4500

Hatfield & Dawson Consulting Engineers

4740 6A-B

4960 4B-A

The following frequencies above 5 MHz were measured with the spectrum analyzer

40-meter band		7280	7A
5080	2A+2B	7500	5B
5200	5A	7620	3A+3B
5420	5B-2A	7740	6A+B
5540	A+3B	7960	6B-A
5660	4A+B	8080	2A+4B
6000	4B	8200	5A+2B
6120	3A+2B	8540	A+5B
6240	6A	8660	4A+3B
6460	5B-A	9000	6B
6580	2A+3B	9120	3A+4B
6700	5A+B	9580	2A+5B
7040	A+4B	10040	A+6B
7160	4A+2B	10500	7B

Products in the 40-meter band were measured due to complaints from local amateur radio operators. These products, being 4th and 5th order products, seemed to be unlikely to be generated by the new diplexing system. Some of these mix products were observable but did not seem to be produced from the transmitter site where the maximum signal was observed with the antenna at right angle to the direction to the transmitter site.

This area has many signal scattering and non-linear junctions that can produce intermodulation. The Honolulu Authority for Rapid Transportation (HART) is constructing a bridge and station directly north of the site. At the time of the installation there were a number of construction cranes with booms exceeding 150 feet within 300 meters of the site. There is a high voltage transmission line that runs within 4 meters and 90 meters of two of the AM towers. The gantry cranes at port facilities on Sand Island, which are within 3 km of the site, contribute to the difficult electromagnetic environment. This is an exceedingly difficult measurement environment.



Figure 3 Cranes within 300 meters of the KHKA&KLHT site

To be certain that these mix products were not being produced with in the KHKA & KLHT transmitters a sample was taken from the Toroidal Current Ammeter's transformer for each station (labeled TCA on the drawing). This signal was measured using the notch filter and the spectrum analyzer. There were no harmonic or intermodulation products visible above the noise floor of the spectrum analyzer where a dynamic range of greater than 100 dBc was achieved using the notch filter. We can be confident that none of the intermodulation products are being produced within the KHKA & KLHT transmitters.

We believe that the filtering on this facility is sufficient to meet the requirements of 47 CFR § 73.44 AM transmission system emission limitations.

SECTION III FUNDAMENTAL FIELD STRENGTH MEASURED AT FCC MONITORING STATION

On 3 June 2019 between the time of 1500-1600. The field strength for KHKA, 1500 kHz was measured to be 19.3 mV/m. This signal was measured again the next afternoon to be 20.5 mV/m. This was measured on a Potomac Instruments FIM41 S/N 1951 calibrated 13 June 18. This signal is below 45 mV/m.

SECTION IV SPURIOUS EMISSION AT THE MONITOR STATION

Spectral measurements were made at the monitoring station using a Rhode & Schwarz FSH3 Portable Spectrum Analyzer (100 kHz-3 GHz) with an Electro-Metrics Loop Antenna. These are shown in figures 4 through 13. It should be noted that this test configuration or an FIM41 are not capable of measuring signals as low as the 0.71 μ V/m. The FIM41 cannot measure below 10 μ V/m and the newer PI-4100 cannot measure below 22 μ V/m. The noise floor of this test set up misses the mark by 30 – 45 dB. This noise floor and signals below the noise floor cannot be measured effectively with standard communications industry and broadcast engineering test equipment.

Figure	Analyzer Noise Floor (dBm)	50 Ohms (dBμV)	Antenna Factor (dB)	Apparent E Field (dBμV/m)
4	-115	-8.0	50.0	41.99
5	-118	-11.0	50.5	39.49
6	-119	-12.0	50.0	37.99
7	-121	-14.0	43.0	28.99
8	-118	-11.0	43.0	31.99
9	-122	-15.0	43.0	27.99
10	-125	-18.0	45.0	26.99
11	-125	-18.0	45.0	26.99
12	-125	-18.0	45.0	26.99
13	-125	-18.0	45.0	26.99

We expect the thermal noise within a 5 kHz bandwidth to be -137 dBm presented to 50 ohm termination at the output connectors of a test antenna.

$$-137 \text{ dBm} = 10 \text{ Log } (5000) + (-174 \text{ dBm/Hz})$$

The required 0.71 μ V/m is 18 dB below the expected thermal noise floor. This requirement seems to be unmeasurable and unreasonable. It also seems quite unachievable for a site that is 20 km from a large city with a major military base and airport within 10 km of the monitor station.

With these measurements and the additional measurements made within the antenna system of KHKA & KLHT we believe we comply with these requirements but have no way of definitively proving that this is the case.

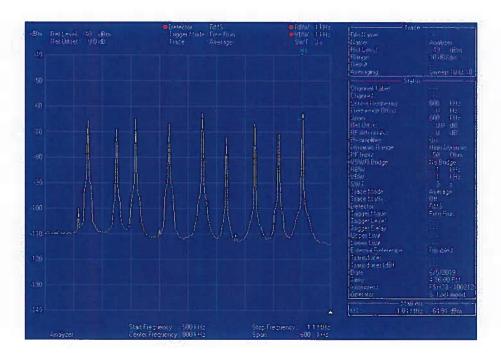


Figure 4 Lower AM Band 500-800 kHz

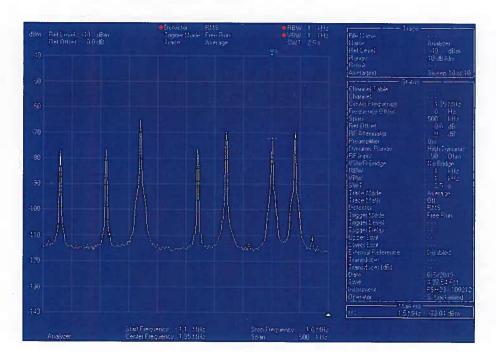


Figure 5 Upper AM Band 1.1 - 1.6 MHz

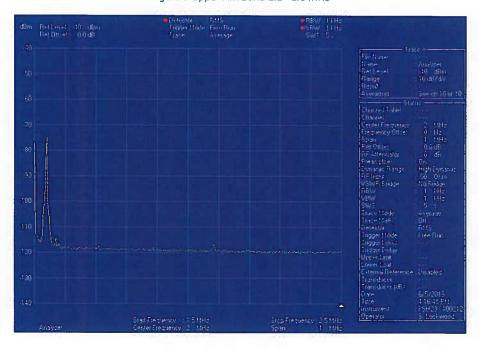


Figure 6 1.5 - 2.5 MHz

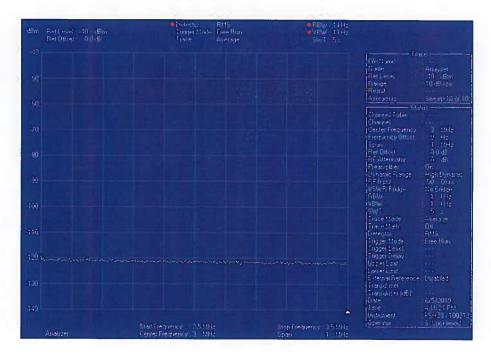


Figure 7 2.5 - 3.5 MHz

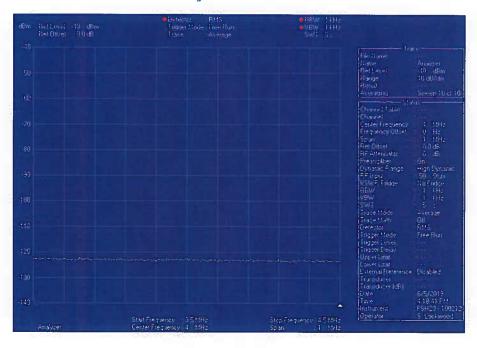


Figure 8 3.5 - 4.5 MHz

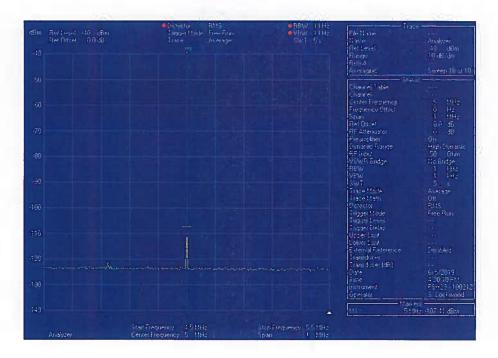


Figure 9 4.5 - 5.5 MHz (note WWVH)

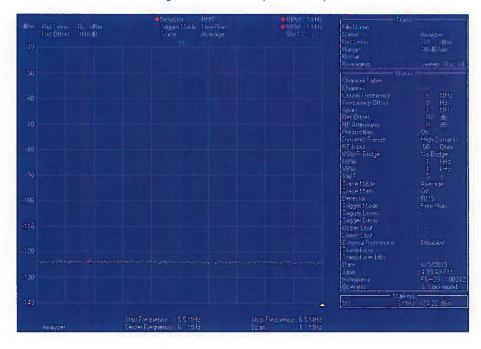


Figure 10 5.5 - 6.5 MHz

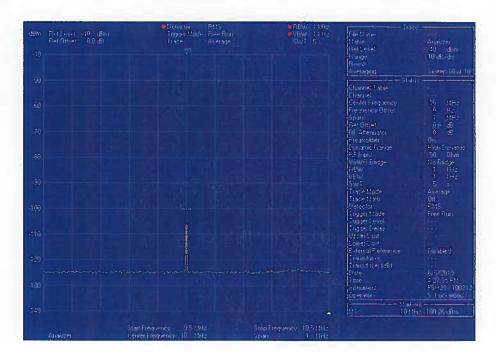
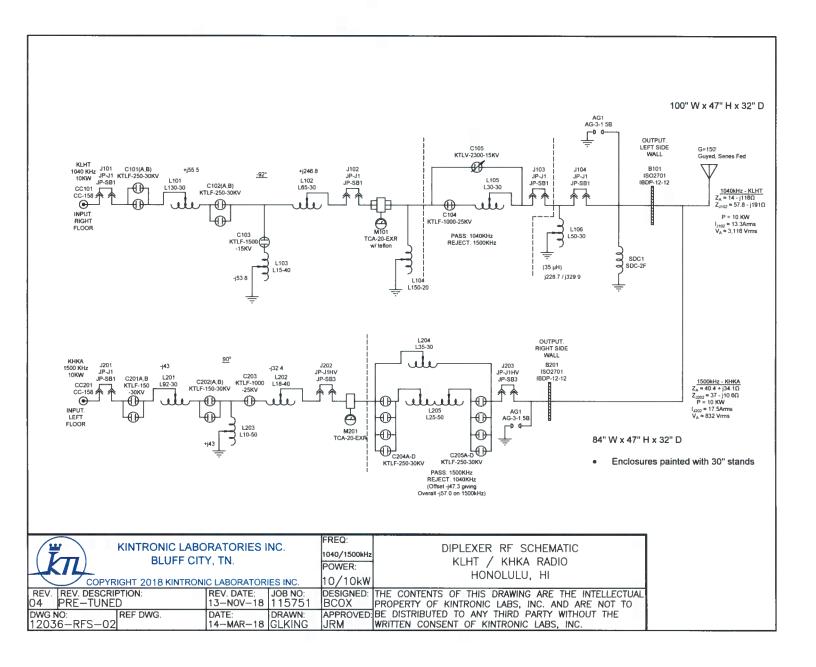
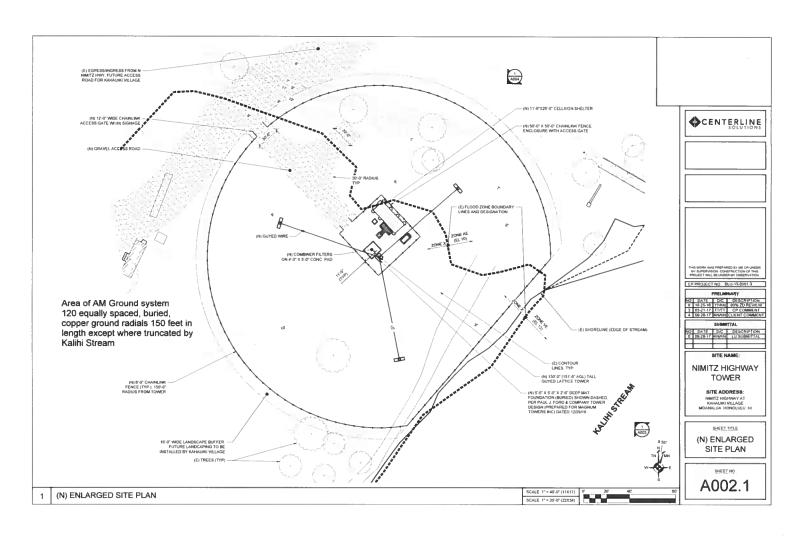


Figure 13 9.5 - 10.5 (note WWVH)





Robert A. Elder contributed to the data collection for, and preparation of this Engineering Report. He is an experienced radio engineer whose qualifications are a matter of record with the Federal Communications Commission, and presently is President of Compliance Matters, Inc., a firm incorporated in 1996, and which has since 2005 specialized in providing RF Engineering Field Support to the broadcast industry at many locations world-wide. He has served as an RF Design Engineer and Sr. Field RF Engineer at Kintronic Laboratories, Inc., and holds a BS in Physics, and a BS in Electrical Engineering, both from Rochester Institute of Technology. He hereby attests to the accuracy of the representations contained herein to the best of his knowledge.

Robert A. Elder

This Engineering Report prepared for KHKA and KLHT has been prepared by myself or under my direct supervision. All representations contained herein are true to the best of my knowledge. I am an experienced radio engineer whose qualifications are a matter of record with the Federal Communications Commission. I am a partner in the firm of Hatfield and Dawson Consulting Engineers and am Registered as a Professional Engineer in the States of Washington, Alaska, and Wyoming.

Stephen S. Lockwood

17 June 2019



SECTION III - LICENSE APPLICATION ENGINEERING DATA						
Name of Applicant						
BLOW UP, LLC						
PURPOSE OF A	UTHORIZATION APPLIED FOR	: (check one)				
X	Station License	Direct Mea	surement of Power			
1. Facilities author	orized in construction permit					
Call Sign	File No. of Construction Permit		Hours of Operation	on	Power in	kilowatts
кнка	(if applicable) BP-20180419ABS	(kHz) 1500	UNLIMITED		Night 5.0	Day 5.0
2. Station locatio	n					
State			City or Town			
HAWAII			HONOLULU			
3. Transmitter loc	cation		1			
State	County		City or Town		Street address (or other identification)	ation)
ні	HONOLULU		HONOLULU		2625 N NIMI	ŕ
4. Main studio lo	cation					
State	County		City or Town		Street address	ation)
HI	HONOLULU		HONOLULU		(or other identification 126 QUEEN S	•
5. Remote contro	ol point location (specify only if a	uthorized direction	al antenna)			
State	County		City or Town		Street address (or other identification)	ation)
						,
7. Does the samp	oved stereo generating equipme pling system meet the requirement that the requirement is a detailed description of the	nts of 47 C.F.R. S			Γ	
8. Operating con-						
RF common point modulation for nig	t or antenna current (in amperes) tht system 12.0) without	RF common poin modulation for da	ıy system	current (in ampere	s) without
Measured antenn operating frequen Night	a or common point resistance (ir cy Day	ı ohms) at	Measured antenr operating frequer Night		point reactance (i	n ohms) at
34.9	34.9		-j30.9		-j30.	9
Antenna indication	ns for directional operation					
Towe			Antenna monitor sample current ratio(s) Anten		Antenna b	ase currents
	Night	Day	Night	Day	Night	Day
Manufacturer and	type of antenna monitor:					

SECTION III - Page 2

9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator UNIFORM CROSS SECTION GUYED TOWER	Overall height in meters of radiator above base insulator, or above base, if grounded.	Overall height above ground obstruction lig	(without	Overall height in meters above ground (include obstruction lighting)	If antenna is either top loaded or sectionalized, describe fully in an Exhibit.	
Excitation	X Series	Shunt				
Geographic coordinates tower location.	to nearest second. For direct	tional antenna (give coordinat	es of center of array. For si	ngle vertical radiator give	
North Latitude 23	20	06"	West Longitu	ode 157 5	3 37	
	ove, attach as an Exhibit furtl ver and associated isolation ci		dimensions in	ncluding any other	Exhibit No.	
Also, if necessary for a dimensions of ground sy	a complete description, attac stem.	ch as an Exhit	oit a sketch o	of the details and	Exhibit No.	
10. In what respect, if a permit?	ny, does the apparatus const	ructed differ fro	m that describ	ped in the application for cor	nstruction permit or in the	
I certify that I represent	change in antenna or commo	indicated belo		have examined the foregoin	g statement of technical	
	true to the best of my knowle					
Name (Please Print or T STEPHEN S. LOC		S	Signature (che	ck appropriate box below)		
Address (include ZIP Co	de)	C	ate			
HATFIELD & DAW 9500 GREENWOOL	ISON CONSULTING ENGI AVE N		10 JUNE 2019			
SEATTLE, WA 98	3103	T	Telephone No. (Include Area Code) 206 783 9151			
Technical Director			X Registere	d Professional Engineer		
Chief Operator			Technica	Consultant		
Other (specify)						

FCC 302-AM (Page 5) August 1995